



AVOX Systems

SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

TEST DATA SHEET FOR P/N 800840 Series Variable Pressure Regulator Assembly

1. BACKGROUND

- A. Overhaul Manual 35-11-35 specifies the tests that must be passed in order to return a unit to service. This SIL provides a standardized form on which to record the results of the required functional tests. This form will be incorporated into the Overhaul Manual at the next revision.
- B. You are authorized to copy the form on pages 2 and 3. If you copy the form on pages 2 and 3, you must copy all of the form.
- C. Use this form only for the AVOX Systems component printed on the form. Do not use this form for any other AVOX Systems components or for any components of another company.

2. EFFECTIVITY

- A. Aircraft
The Test Data Sheets on pages 2 and 3 can be used for all units whether removed from any aircraft or from spares inventory.
- B. This SIL applies to P/N 800840 Series Variable Pressure Regulator Assemblies only.

3. MATERIALS

The only material required by this SIL is the Test Data Sheet on pages 2 and 3.

4. ACCOMPLISHMENT OF SIL

- A. Make complete copies of the Test Data Sheet on pages 2 and 3.
- B. Use a copy of the Test Data Sheet from pages 2 and 3 to record the results of tests whenever a P/N 800840 Series Variable Pressure Regulator Assembly is tested.

5. TO CONTACT AVOX SYSTEMS:

Use the contact information below to get a copy of an Overhaul Manual or the revision status of a publication. Give the AVOX Systems part number and the aircraft model when you request an Overhaul Manual copy.

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OVERHAUL MANUAL 35-11-35
TEST DATA SHEET A
800480 Series Variable Pressure Regulator Assembly

Tested by: _____

Date: _____

Part Number: 800480-_____

Inspected by: _____

Date: _____

Serial Number: _____

Refer to the Inspection/Checking, Testing, and Trouble Shooting sections of OVERHAUL MANUAL 35-11-35.**4. Inspection/Checking**

Inspect the assembly and components for evidence of external damage, scoring, thread damage, and overall condition. Verify no evidence of deterioration to elastomer components. Verify that any parts that are no longer serviceable have been replaced.

☐ FAILPASS ☐**8. Test Procedures****A. Relief Valve Tests**

Perform cracking pressure and reseal tests.

Inlet Pressure (psig)	Relief Valve Flows Oxygen	Inlet Pressure (psig)	Valve Reseats & No Leakage from Relief Valve
190 ± 10	☐ FAIL PASS ☐	165 min.	☐ FAIL PASS ☐

8. Test Procedures**B. Cycling**

Perform cycling of the regulator.

8. Test Procedures**C. Regulated Pressure and Flow Tests**

Inlet Pressure (psig)	Flow (lpm)	Outlet Pressure ± 10 (psig)	
1800	65	150	☐ FAIL PASS ☐
1800	0	150	☐ FAIL PASS ☐
1000	65	103	☐ FAIL PASS ☐
1000	0	103	☐ FAIL PASS ☐
100	0	50	☐ FAIL PASS ☐
100	65	50	☐ FAIL PASS ☐
100	200 min.	-	☐ FAIL PASS ☐

8. Test Procedures**D. Leakage Tests**

Perform an external leakage test.

Inlet Pressure (psig)	0 Leakage Allowed
1800	☐ FAIL PASS ☐
100	☐ FAIL PASS ☐

Perform an external leakage test.

Inlet Pressure (psig)	10 cc/min Allowed MAX
1800	☐ FAIL PASS ☐
100	☐ FAIL PASS ☐

NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.

APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.



OVERHAUL MANUAL 35-11-35
TEST DATA SHEET B
800480 Series Variable Pressure Regulator Assembly

Tested by: _____

Date: _____

Part Number: 800480-_____

Inspected by: _____

Date: _____

Serial Number: _____

8. Test Procedures**E. Pressure Gauge Test**

Perform a pressure gauge accuracy test.

Inlet Pressure (psig)	Observed Gauge Pressure Actual $\pm$ 50 psig
100	☐ FAIL PASS ☐
500	☐ FAIL PASS ☐
1000	☐ FAIL PASS ☐
1500	☐ FAIL PASS ☐
1800	☐ FAIL PASS ☐

9. Shelf Storage (Stabilization Test)**F. Store Regulator for 48 Hours Minimum.**

Repeat relief valve, regulated pressure and flow, and leakage tests.

☐ FAIL	PASS ☐
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NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.
APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.